

ET 153154616 US

ABSTRACT OF THE DISCLOSURE

An apparatus for connection of a rapid charging system to an electric vehicle includes a connector plug that is attached to an electrical cable at one end that is, in turn, connected to a charging system at the remaining end of the cable. The connector plug is adapted to fit into a mating receptacle that is attached to the electric vehicle. A pair of cavities in the connector plug are adapted to receive any combination of modules that include switches, lights, or blank filler plugs. The connector plug is preferably molded from rubber. Various contacts are described having high current, or signal, or pilot functions and which mate with various length pins in the mating receptacle so as to sequence the order in which electrical conductivity is attained. Temperature sensing of the connector and shutdown subsequent to an over-temperature condition is described and allows for the use of smaller sized electrical connectors.

2025 RELEASE UNDER E.O. 14176